

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-2 (Cancelled).

Claim 3 (Currently Amended): A radio communication terminal comprising:
a receiver connected to a receiving antenna; and
an interference canceller for canceling a radiated noise component of electronic equipment from a received signal output from said receiver;

wherein said interference canceller includes:

a band converting part connected to electronic equipment, for converting said radiated noise from said electronic equipment to the same band as that of the output received signal of said receiver;

a radiated noise predictor for generating a pseudo interference signal ~~base~~
based on the converted output of said band converting part; and

an adder for adding together said received signal and said pseudo interference signal to cancel said radiated noise component in said received signal; and

wherein said radiated noise predictor includes:

an amplifier connected to the output of said band converting part, for controlling the level of the radiated noise obtained therefrom;

a phase shifter connected in series to said amplifier, for controlling the phase of said radiated noise; and

a control part for controlling the gain of said amplifier and the phase-shift amount of said phase shifter based on the output from said adder.

Claim 4 (Cancelled).

Claim 5 (Currently Amended): A radio communication terminal comprising:

a receiver connected to a receiving antenna;

an interference canceller for canceling a radiated noise component of electronic equipment from a received signal output from said receiver; and

a memory for storing a radiated noise component received by said receiver during a transmission interruption period of a transmitting side;

wherein said interference canceller includes:

a radiated noise predictor for generating a pseudo interference signal base based on the radiated noise produced by said electronic equipment; and

an adder for adding together said received signal and said pseudo interference signal to cancel said radiated noise component in said received signal; and

wherein said radiated noise predictor includes

an adaptive filter for generating said pseudo interference signal by adaptively filtering the radiated noise component read out from said memory during the transmission interruption period or transmission period of the transmitting side; and

a control part for controlling coefficients of said adaptive filter based on the output from said adder.

Claim 6 (Currently Amended): A radio communication terminal comprising:

a receiver connected to a receiving antenna;

an interference canceller for canceling a radiated noise component of electronic equipment from a received signal output from said receiver; and

a training signal generating part for generating a training signal;

wherein said interference canceller includes: ^

a radiated noise predictor for generating a pseudo interference signal ~~base~~
based on the radiated noise produced by said electronic equipment;

an adder for adding together said received signal and said pseudo interference
signal to cancel said radiated noise component in said received signal; and
wherein said radiated noise predictor includes:
a selector for selecting the training signal from said training signal generating part
during a period of transmission of a training signal from the transmitting side and for
selecting the output from said adder during a period of receiving an information signal from
the transmitting side;
a subtractor for subtracting the selected output of said selector from the output of said
receiver;
an adaptive filter for generating said pseudo interference signal by adaptively filtering
the output from said subtractor by filter coefficients; and
a control part for controlling the coefficients of said adaptive filter based on the output
from said adder.

Claim 7 (Currently Amended): A radio communication terminal comprising:
a receiver connected to a receiving antenna;
an interference canceller for canceling a radiated noise component of electronic
equipment from a received signal output from said receiver;
a second receiver connected to a second antenna;
wherein said interference canceller includes:
a radiated noise predictor for generating a pseudo interference signal ~~base~~
based on the radiated noise produced by said electronic equipment;

an adder for adding together said received signal and said pseudo interference signal to cancel said radiated noise component in said received signal; and wherein said radiated noise predictor includes:
an amplitude/phase adjustor for adjusting the amplitude and phase of a received signal from said second receiver to generate said pseudo interference signal; and a control part for controlling the amplitude and phase adjustments by said amplitude/phase adjustor based on the output from said adder during the transmission interruption period of the transmitting side so that said pseudo interference signal and the output from said first receiver cancel each other.

Claim 8 (Currently Amended): A radio communication terminal comprising:
a plurality of receivers each connected to one of a plurality of antennas;
an interference canceller for canceling [[a]] radiated noise components of electronic equipment from received signals output from said plurality of receivers; and a diversity receiver;
wherein: said interference canceller includes:
a radiated noise predictor for generating a plurality of pseudo interference signals base based on the radiated noise produced by said electronic equipment;
a plurality of adders each for adding a corresponding one of said plurality of pseudo interference signals to an output of a corresponding one of said plurality of receivers to cancel said radiated noise component in each received signal and to extract an information signal from each received signal; and
wherein said radiated noise predictor includes a plurality of amplitude/phase adjustors for adjusting amplitudes and phases of radiated noises from electronic equipment to generate pseudo interference signals in correspondence with said plurality of receivers, and a control

part for controlling the amplitude and phase adjustments by said plurality of amplitude/phase adjustors based on the outputs from said plurality of adders, the outputs from said plurality of adders being diversity-received by said diversity receiver, and

wherein said interference canceller includes a band converting part which converts said radiated noise directly supplied via a cable from said electronic equipment to a same band as a band of the output received signal of said receiver and provides the converted output to said radiated noise predictor.

Claim 9 (Cancelled).

Claim 10 (Currently Amended): A radio communication terminal comprising:
a receiver connected to a receiving antenna;
an interference canceller for canceling a radiated noise component of electronic equipment from a received signal output from said receiver; and
a second receiver connected to a second receiving antenna;

wherein said interference canceller includes:

a radiated noise predictor for generating a pseudo interference signal base based on the radiated noise produced by said electronic equipment; and
an adder for adding together said received signal and said pseudo interference signal to cancel said radiated noise component in said received signal; and
wherein said radiated noise predictor includes:

first and second multipliers for multiplying received signals from said first and second receivers by first and second tap coefficients, respectively, and for providing the multiplied outputs to said adder; and

a control part for controlling said first and second tap coefficients based on the output from said adder so that radio noise components in the outputs from said first and second multipliers cancel each other.